Five Years Descriptive Study of Optic Atrophy Among Patients Admitted in Tertiary Care Hospital



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Percentage 14.1%

> 5,1% 5,1%

3,8% 3,8%

2,6%

2,6%

2,6%

2,6%

2,6%

2,6%

2,6%

2,6%

1,3%

1,3%

1,3%

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1.3%

1,3% 1,3% 1,3%

1,3%

1,3%

1.3%

30,8%

100%

INTRODUCTION

Optic atrophy is the end process of a disease that causes degeneration of axons along the pathway to the lateral retinogeniculate bodies. Previous studies regarding the optic atrophy have had different results. This study was conducted to describe of optic atrophy patients at Abdul Wahab Sjahranie Hospital Samarinda in 2015-2020.

METHODOLOGY

This retrospective descriptive study was conducted in February 2021. Data were obtained from 64 patients who admitted to Abdul Wahab Sjahranie Hospital, Samarinda.

Hidrosefalus

Sella Turcica Tumor

Bitemporal Heminopia

Temporal LobeTumor

Diabetes Melitus type 2

Intracranial Tuberkuloma

Supratentorial Space Occupying Lesion

Central Retinal Artery Occlusion

Non-poliferatif Retinopati Diabetic

Ptituari Adenoma

Citomegalovirus

Hipofise Tumor

Dry eye

Catarac

Nistagmus

Head Injury

Hemangioma Menigioma

Suprasellar Tumor

Retrobulbar Tumor

No Comorbidities

Vitritis

Uveitis

Papilitis

Glaucoma

Characteristic

RESULTS

Characteristic	Amount	Percentage
Primary	4	16,7%
Secondary	20	83,3%
Total	24	100%

Figure 1. Frequency Distribution of Optic Atrophy Patients by Type

Characteristic	Amount	Percentage
Male	37	57,8%
Female	27	42,2%
Total	64	100%

Figure 2. Frequency Distribution of Optic Atrophy Patients by Gender

Amount	Percentage
16	25%
5	7,8%
9	14,1%
5	7,8%
17	26,6%
9	14,1%
3	4,7%
64	100%
1	
75	
34,03	
	16 5 9 5 17 9 3 64 1

Figure 3. Frequency Distribution of Optic Atrophy Patients by Age

Characteristic	Amount	Percentage
Unilateral	30	46,9%
Bilateral	34	53,1%
Total	64	100%

Figure 4. Frequency Distribution of Optic Atrophy Patients Based on Affected Eyes

Characteristic	Amount	Percentage
Normal	8	8,9%
Mild visual impairment	5	5,6%
Moderate visual	15	16,7%
impairment		
Severe visual	10	11,1%
impairment		
Blindness	52	57,8%
Total	90	100,0%

Figure 5. Frequency Distribution of Optic Atrophy Patients Based on Visual Acuity

Characteristic	Amount	Percentage
Eye disease	29	37,2%
Not eye disease	25	32,1%
No comorbidities	24	30,8%
Total	78	100,0%

Figure 6. Frequency Distribution of Optic Atrophy Patients Based on Comorbidities

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CONCLUSION

Optic atrophy patients at Abdul Wahab Sjaharanie Hospital from 2015-2020 found that secondary type, bilateral, male, 45-55 years old age group, blind vision and comorbid retrobulbar neuritis were the most frequent occurrences.

KEYWORD

Optic atrophy, neuritis retrobulbar

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Figure 6. Frequency Distribution of Optic Atrophy Patients Based on Comorbidities